



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20040010

Agency Interest No. 288

Mr. Kelly B. Serio  
Vice President/Plant Manager  
PO Box 271  
Baton Rouge, LA 70821-0271

RE: Part 70 Operating Permit, Formosa Plastics Corp LA, Baton Rouge Plant—Utilities Unit, Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Kelly B. Serio:

This is to inform you that the initial Title V permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

Permit No.: 2915-V0

Sincerely,

Chuck Carr Brown Ph.D.  
Assistant Secretary  
CCB: der/amr/cet  
cc: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

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**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**FORMOSA PLASTICS CORPORATION-LOUISIANA**  
**BATON ROUGE NORTH WORKS-UTILITY UNIT**  
**PROPOSED INITIAL PART 70 AIR OPERATING PERMIT**  
**AND PREVENTION OF SIGNIFICANT DETERIORATION (PSD) MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed initial Part 70 air operating permit and PSD modification for Formosa Plastics Corporation LA (FPC-LA), Baton Rouge North Works, P.O. Box 271, Baton Rouge, LA 70821-0271 for the Utility Unit. **The facility is located on the north end of Gulf States Road, Baton Rouge, East Baton Rouge Parish.**

Formosa Plastics Corporation LA is an existing synthetic organic chemical manufacturing industry facility. The FPC-LA operates under State Permit No. 0840-00002-10 issued March 7, 1997 and PSD-LA560 (M-1) issued March 2, 1995.

FPC-LA requested incorporation of the following changes in the initial Part 70 air operating permit:

1. Install two new package boilers (350 MMBTU/hour) to meet plant steam requirements allowing one of the gas turbines to be idled. These two new boilers will not be operated simultaneously.
2. Modify the anticipated emissions associated with existing Package Boiler A to show increased use of this boiler for plant operations.
3. Incorporate all major combustion sources (three cogeneration units, existing Package Boiler A, existing Package Boilers B and C, and the new package boilers) under a single emissions cap (Combustion Cap). Package Boilers B and C will be permanently shut down when the new package boilers are brought on line.
4. Include requirements approved under the Alternative Monitoring Plan (Revision 1) for NO<sub>x</sub> RACT in the Part 70 air operating permit. The Alternative Monitoring Plan details monitoring requirements and emission levels allowed for NO<sub>x</sub> and CO in the Baton Rouge Non-attainment Area during the ozone season.
5. Update previously specified emission rates using a more conservative evaluation of emission factors obtained from stack tests, vendor data, and currently published AP-42 emission factors.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before<sup>1</sup></u>	<u>After<sup>2</sup></u>	<u>Change<sup>3</sup></u>
PM <sub>10</sub>	9.80	39.38	+29.58
SO <sub>2</sub>	5.00	22.69	+17.69
NO <sub>x</sub>	643.30	642.74	-0.56
CO	314.10	350.65	+36.55
VOC*	9.02	35.53	+26.51
*Toxic VOC Compounds	NS	11.17	+11.17
Non-toxic VOC Compounds	NS	3.42	+3.42

<sup>1</sup>The before emissions represent pollutant emissions that were existing and not previously speciated/accounted for.

<sup>2</sup>The after emissions are based upon pollutant emissions that are more conservative evaluation of emission factors obtained from vendor data, stack test data, or regulatory data and the addition of the proposed new boilers.

<sup>3</sup>Netting analysis, as a result of installing the new boilers, indicate that emissions are below NSR thresholds for all pollutants.

\*The Utility Unit is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III, Chapter 51. However, until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.

Additionally FPC-LA is requesting a modification of an existing PSD permit. PSD-LA-560 (M-3) updates the requirements included in PSD-LA-560 (M-2). This permit includes the removal of permanently shut down emission sources and updates the specific conditions. PSD-LA-560 (M-3) supersedes the previous PSD permits, including PSD-LA-560, PSD-LA-560 (M-1) and PSD-LA-560 (M-2).

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, May 30, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit applications, proposed initial Part 70 air operating permit, proposed PSD permit modification, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). An additional copy may be reviewed at the East Baton Rouge Parish Library, Scotlandville Branch, located at 7373 Scenic Highway, Baton Rouge, LA 70807.

Inquiries or requests for additional information regarding this permit action should be directed to Ms. Cathy E. Thompson, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-0034.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [maillistrequest@ldeq.org](mailto:maillistrequest@ldeq.org) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permits and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.state.la.us/news/PubNotice/](http://www.deq.state.la.us/news/PubNotice/) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.state.la.us/ldbc/listservpage/ldeq\\_pn\\_listserv.htm](http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 288:  
Permit Number 2915-V0, and Activity Number PER20040010 for the Part 70 air operating permit  
Permit Number PSD-LA-(560 M-3), Activity Number PER20060004 for the PSD permit.**

**Publication Date:** April 25, 2006

**AIR PERMIT BRIEFING SHEET**  
**PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Formosa Plastics Corp LA**  
**Baton Rouge Plant—Utility Unit**  
**Agency Interest No.: 288**  
**Baton Rouge, East Baton Rouge Parish, Louisiana**

**I. Background**

Formosa Plastics Corp LA, (FPC-LA), is an existing synthetic organic chemical manufacturing industry (SOCMI) facility consisting of four units—a Chlorine-Caustic Unit, Vinyl Chloride/EDC Units, a Poly Vinyl Chloride Unit, and a Utility Unit. The Baton Rouge site has been in operation over 40 years. Formosa Plastics Corp LA currently operates under State Permit No. 0840-00002-10, issued March 7, 1997, and PSD-LA-560 (M-1), issued March 2, 1995. The company also received PSD-LA-560 (M-2) on March 7, 1997 to operate a third combined-cycle gas turbine. These permits were issued for the entire facility.

Formosa received Title V Permit No. 1004-V0, dated October 24, 2001, for its PVC Unit. This is the initial Part 70 operating permit for the Utility Unit, and includes all previous permitting activities, with the exception the modified PSD identified as PSD-LA-560 (M-3) is in effect as specified in Specific Requirement No. 206 of the initial Part 70 operating permit.

**II. Origin**

A permit application and Emission Inventory Questionnaire for the entire facility was initially submitted by Formosa Plastics Corp LA on September 25, 1996. On August 20, 2000, Formosa requested that individual Title V permits be issued for each operating unit. On December 21, 2004 updated information was supplied by Formosa Plastics Corp LA for the initial Part 70 operating permit for the Utility Unit. Additional application information dated February 4, 2005 and March 17, 2005, was also received. A proposed Alternative Monitoring Plan for NO<sub>x</sub> RACT was received February 4, 2005 and updated on March 9, 2005. The Alternative Monitoring Plan, to be used during ozone season, was approved on March 21, 2005, and is incorporated into this permit. On May 18, 2005 an addendum to the application was received requesting approval to add a new package boiler and permanently shut down two existing small boilers. Additional information on the proposed new boilers was received on June 30, 2005 and January 30, 2006.

**III. Description**

With respect to Utility Unit permit activities, a final PSD permit modification involving the installation of new Gas Turbine No. 3 was approved by LDEQ on March 7, 1997 [PSD-LA-560 (M-2)]. The Utility Unit is currently operating under this PSD permit and the State Air Permit No. 0840-00002-10. On December 16, 1996, LDEQ approved an alternative fuel sampling schedule for compliance with 40 CFR 60 Subpart GG, 60.334(b)(2).

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The Utility Unit currently consists of three gas turbines, three boilers, a process water treatment plant, an electrical power substation, and an air separation unit that produces oxygen, nitrogen, and argon.

The three gas turbines are General Electric combined-cycle turbines. The total yearly average output of the turbines is 998,640 MW-hrs. The rating for each gas turbine at a temperature of 59 °F is approximately 38 MW. The maximum generator rating for Gas Turbines No. 1, No. 2, and No. 3 are 44.9 MW, 47.5 MW, and 47.5 MW respectively. Gas Turbine No. 1 was constructed in 1984 and Gas Turbine No. 2 was constructed in 1989. Gas Turbine No. 3 installation was completed in August of 1996 and has been operated since that time. All turbines are fired using only natural gas.

Each gas turbine exhausts through a Heat Recovery Steam Generator (HRSG) that is outfitted with an associated supplemental firing system (duct burner). This system produces high pressure steam that is routed through two steam turbines. A gas turbine and its associated HRSG are capable of producing 140,000 pounds of steam per hour at 1,314 psig and 905 °F without supplemental firing. With supplemental firing, each duct burner is capable of producing an additional 100,000 pounds per hour at ISO conditions with 15% oxygen. The duct burners for Gas Turbines No. 1 and No. 2 have the capability to fire natural gas or a combination of natural gas and hydrogen produced in Formosa's chlorine plant (currently shut down). However, Formosa shall operate Gas Turbines No. 1 & No. 2 with natural gas only. The duct burner for Gas Turbine No. 3 burns natural gas only.

Each of the steam turbines associated with the HRSGs are capable of producing 12 MW with an inlet flow of 245,000 pounds per hour of steam. The electricity and plant steam requirements for 300 psig and 135 psig service are provided by the turbines and HRSGs.

Emission controls are utilized on the turbines. Gas Turbines No. 1 and No. 2 are both equipped with steam injection and typically operate with a steam to fuel injection ratio of 1:1. Gas Turbine No. 2 has a steam flow program that determines a steam injection rate based on fuel flow rates, ambient temperature, and the approximate specific humidity. This program calculates the steam injection rate for emissions compliance. The steam injection control system determines steam flow at a rate higher than that required for compliance. This offset ensures compliance with the expected control system dead band and operational transients. Gas Turbine No. 3 is equipped with a dry low NO<sub>x</sub> technology to achieve a guaranteed 9.0 ppm NO<sub>x</sub> emission level.

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The standby boilers (Package Boilers A, B, and C) provide swing load process steam, allowing the turbines to operate at constant rates as steam demand varies. The boilers also provide for plant steam during gas turbine downtime. Package Boiler A is rated at 92.7 MMBTU-HHV/hour. Package boilers B and C vent to a single stack with each boiler rated at 40 MMBTU-HHV/hour.

The design basis for the Utility Unit required the operation of all three turbines and associated HRSGs to supply overall plant electrical and steam needs. In order to maintain emissions within the proposed cap limits including the addition of the new package boilers, FPC-LA proposes to restrict the operation of the combustion sources in the emission cap in conjunction with the new boilers. The Utility Unit has designed five alternate operating scenarios for the operation of the new boilers within the combustion emissions cap. Optimization of the supply of steam is desired, therefore, once the plant electrical and steam demands are quantified, the permittee shall determine which operating scenario provides the required steam to support facility needs. These scenarios are described below:

**Scenario 1** – Package Boilers A and either B1 or B2 may operate with any two of the three gas turbines.

**Scenario 2** – Gas Turbine/HRSG No. 3 and either Gas Turbine/HRSG #1 or Gas Turbine/HRSG #2 shall be operated simultaneously. Package Boiler B1/B2 shall not operate simultaneously with simultaneous operation of all three Gas Turbines/HRSGs, except during periods of startup or shutdown. Package Boilers A and B1/B2 may operate with Gas Turbine/HRSG No.3 and either Gas Turbine/HRSG No. 1 or Gas Turbine/HRSG No. 2.

**Scenario 3** – Package Boilers A and B1/B2 may operate with any one of the three Gas Turbines/HRSGs.

**Scenario 4** – Gas Turbine/HRSG #3 and either Gas Turbine #1 or #2 shall operate in this scenario. HRSGs #1 and #2 shall not operate in this scenario. Package Boilers A and B1/B2 may operate with Gas Turbine/HRSG No. 3 and either Gas Turbine #1 or Gas Turbine #2.

**Scenario 5** – HRSG #3 shall not operate in this scenario. Package Boilers A and B1/B2 may operate with Gas Turbine No. 3 and either Gas Turbine/HRSG No. 1 or Gas Turbine/HRSG No. 2.

The Utility Unit is connected to the Entergy power grid through a FPC-owned power station. Although FPC-LA does sell small amounts of excess generated electrical power to Entergy, the Utility Unit has never sold more than one-third of the Potential Electrical Output Capacity

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(PEOC) and no more than 219,000 MW-hr/year from any of the three electricity generators. There are no significant air-emission sources present in the Entergy substation area and no polychlorinated biphenyl compounds are used onsite.

The Utility Unit operates a process water treatment plant, consisting of several insignificant sources—primarily open-top process water treatment units. No significant amount of VOCs or HAPs are emitted from these boiler feed water treatment processes. The unit also contains a cooling tower used for process-area cooling requirements. The cooling tower has been added as a new point source resulting in a significant increase in particulate emissions.

The N<sub>2</sub>/O<sub>2</sub> unit produces oxygen, nitrogen, and argon through an air separation process. The air is filtered and compressed to remove particles and moisture. The air dryer absorbers remove all remaining water vapor and carbon dioxide from the air stream. The dried air stream is then split into two volumes for further processing. Approximately 20% of the air is compressed, cooled using a countercurrent flow of cold pure nitrogen, and passed through an expander.

The remaining 80% of the air enters the air separation unit where it is cooled to cryogenic temperature. The cryogenically cooled air then enters a high pressure column to separate oxygen at the top and nitrogen at the bottom. Nitrogen is condensed and concentrated through a reflux nitrogen sub-cooler. The major part of the stream then passes through a crude argon condenser. The crude argon is separated into liquid and vapor forms. The liquid argon is vaporized. Water is removed from the gasified argon by adding hydrogen. The dry argon is chilled by heat exchangers, purified and stored.

**Proposed Changes/Modifications**

With this revision for the initial Title V application, Formosa is requesting that the following changes and/or modifications be included in the initial Part 70 operating permit.

1. Formosa requests that a combustion emissions cap be permanently incorporated into the Utility Unit's Title V operating permit.
2. The operating limits and monitoring requirements approved in the Alternative Monitoring Plan for NO<sub>x</sub> RACT, to be used during the ozone season, are included as part of the final permit.
3. Formosa proposes the addition of two new, higher capacity boilers (Package Boilers B1 and B2) to replace two existing boilers (Package Boilers B and C), each rated at 33 MMBTU/hour, which will be permanently shut down. The new boilers will each have a rating of 350 MMBTU/hour and will be included as part of the emissions cap. The two new boilers shall not be operated simultaneously except during periods of startup and shutdown.

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In order to achieve the emission cap limitations, specific conditions related to the method of operation for the turbines, HRSGs, and boilers are included as part of the permit.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before<sup>1</sup></u>	<u>After<sup>2</sup></u>	<u>Change<sup>3</sup></u>
PM <sub>10</sub>	9.80	39.38	+29.58
SO <sub>2</sub>	5.00	22.69	+17.69
NO <sub>x</sub>	643.30	642.74	-0.56
CO	314.10	350.65	+36.55
VOC*	9.02	35.53	+26.51

\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before<sup>1</sup></u>	<u>After<sup>2</sup></u>	<u>Change</u>
Acetaldehyde	NS	0.26	+0.26
Acrolein	NS	0.04	+0.04
Benzene	NS	0.08	+0.08
Ethylbenzene	NS	0.20	+0.20
Formaldehyde	NS	4.68	+4.68
Napthalene	NS	0.01	+0.01
PAH	NS	0.01	+0.01
Toluene	NS	0.84	+0.84
Xylenes	NS	0.41	+0.41
Hexane	NS	4.64	+4.64
Total	NS	11.17	+ 11.17

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Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before <sup>1</sup>	After <sup>2</sup>	Change
Chlorine	NS	3.42	+3.42

Other VOC (TPY): 24.36

<sup>1</sup>The before emissions represent pollutant emissions that were existing and not previously speciated/accounted for.

<sup>2</sup>The after emissions are based upon pollutant emissions that are more conservative evaluation of emission factors obtained from vendor data, stack test data, or regulatory data and the addition of the proposed new boilers.

<sup>3</sup>Netting analysis, as a result of installing the new boilers indicate that emissions are below NSR thresholds for all pollutants.

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, 40 CFR 64 (CAM) and Prevention of Significant Deterioration (PSD). A modification to the existing PSD is required due to:

- 1) the permanent shutdown of several units,
- 2) inclusion of an emissions cap for the Utility Unit,
- 3) changes to several specific conditions to clarify that these requirements have been completed, and
- 4) removal of a specific condition that was not applicable to the EQT012/Cogeneration Unit 3 duct burner.

The gas turbines and duct burners (HRSGs), EQT002/Cogeneration Unit 1, EQT003/Cogeneration Unit 2 and EQT012/Cogeneration Unit 3, are subject to New Source Performance Standards (NSPS) (40 CFR 60 Subpart GG and 40 CFR 60 Subpart Db).

National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart DDDDD applies to the proposed new boilers, EQT077/Package Boiler B1(229A) and EQT131/Package Boilers B2 (229B) as does 40 CFR 60 Subpart Db. Based on the potential emissions from the proposed new boilers, a new source review (NSR) netting analysis was conducted. Netting results indicated that emissions were below NSR thresholds for all pollutants.

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Compliance Assurance Monitoring (CAM), 40 CFR 64, is applicable to any major source unit that has the potential to emit greater than 100 tons of a regulated air pollutant after controls (post-control), defined as a pollutant specific emission unit (PSEU). CAM, however, is not applicable to the Utility Unit, specifically, emission units EQT002/Cogeneration 1 (166) and EQT003/Cogeneration 2 (167), because NO<sub>x</sub>, the pollutant requiring control, does not have any monitoring requirements according to a determination made by EPA dated April 24, 2001 regarding industrial gas turbines having a heat input at peak load greater than 100 MMBTU/hr and a manufacturer's rated base load at ISO conditions greater than 30 MW, per 40 CFR 60.332 (40 CFR 60 Subpart GG). Any monitoring for NO<sub>x</sub> required by 40 CFR 60 Subpart GG would have been considered CAM for these emission units. However, on a facility-wide basis, CAM is applicable.

Formosa is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. However, until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>, 2006. The draft permit was also submitted to US EPA Region VI on <date>, 2006. All comments will be considered prior to the final permit decision.

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**VII. Effects on Ambient Air**

A preliminary analysis was made on the effects associated with both the potential emissions from the proposed new boilers and also the effects of the proposed increased level of potential maximum pound per hour emissions from the three gas turbines. Results from the preliminary analysis indicated no significant impact.

**VIII. General Condition XVII Activities**

Work Activity	Schedule	PM <sub>10</sub>	Emission Rates - tons			
			SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
Emergency Storm Water Pump (Diesel Engine)	300 hr/yr	0.03	0.03	0.47	0.10	0.04
Turbine Startup Engines (Diesel)	336 hr/yr	0.08	<0.01	2.62	0.60	0.07
Emergency Firewater Pump Testing (Diesel Engine)	215 hr/yr	0.13	0.12	1.78	0.38	0.28
Equipment Cleaning Air Separation Plant	100 cans/yr					0.08
Parts Degreasing	400 gallon/yr					1.29

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**IX. Insignificant Activities**

ID No.:	Description	Citation Insignificant Activity per:
	Diesel Fuel Storage Tanks (2) at Dock	LAC 33:III.501.B.5.A.2
	Diesel Fuel Storage Tanks (3) in Utility Unit	LAC 33:III.501.B.5.A.2
	Natural Gas Condensate (20 drums/yr)	LAC 33:III.501.B.5.A.2
	Miscellaneous Gas Turbine Compressor Cleaners	LAC 33:III.501.B.5.A.2
171	Waste Oil Storage Tank (6000 gallons)	LAC 33:III.501.B.5.A.3
	Lime Silo Loading	LAC 33:III.501.B.5.A.4
	Lab Chemicals	LAC 33:III.501.B.5.A.6
	Miscellaneous Resin Drums	LAC 33:III.501.B.5.A.7
T-505	30% Hydrochloric Acid Storage Tank	LAC 33:III.501.B.5.D
	93% Sulfuric Acid Storage Tank	LAC 33:III.501.B.5.D
	Water Clarifier	LAC 33:III.501.B.5.D

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corp LA  
 Baton Rouge Plant—Utility Unit  
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Table 1. Applicable Louisiana and Federal Air Quality Requirements

X.	ID No.:	Description	LAC 33:III. Chapter																		
			2*	5 <sup>▲</sup>	9	11*	13*	15	2103	2104*	2107	2113	2115	2116*	2131	22	29*	51*	53	56	59
	GRP 7	Facility Wide -Utility Unit	1	1	1	1	1					1					1	1		1	3
	GRP 8	Utility Unit Combustion Cap															1				1
	EQT 2	Cogeneration Unit No. 1 (166)			1	1	1									1		2			
		Gas Turbine No. 1 (166A)														1					
		Duct Burner No. 1 (166B)														1					
	EQT 3	Cogeneration Unit No. 2 (167)			1	1	1									1		2			
		Gas Turbine No. 2 (167A)														1					
		Duct Burner No. 2 (167B)														1					
	EQT 9	Cogeneration Unit No. 3 (212)			1	1	1									1		2			
		Gas Turbine No. 3 (212A)														1					
		Duct Burner No. 3 (212B)														1					
	EQT 4	Package Boiler A (168)			1	1	1									1		2			
	EQT 8	Package Boiler B & C Vent (205)			1	1	1									1					
	EQT 5	Gasoline Tank Vent (170)									1					1		1			
	EQT 7	Diesel fuel Storage Tank Vent (172)									1							3			
	EQT 10	Utilities Cooling Tower (220)					1											1			
	EQT 77	Package Boiler B1 (229A new)			1	1	1										2		2		
	EQT131	Package Boiler B2 (229B new)			1	1	1										2		2		

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- \* The regulations indicated above are State Only regulations.
- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 63 NESHAP				40 CFR			40 CFR 82			CAA			
		A	Kb	Db	Dc	M	G	G	A	Q	YYYY	DDDD	64	68	72-78	B	E		F	H	
GRP 7	Facility wide - Utility Unit	1						1					1/2	3	2	1	1	1	1	1	1
GRP 1	Utility Unit Combustion Cap			1			1								2						
EQT 2	Cogeneration Unit No. 1 (166)	1		1			1			3	3										
	Gas Turbine No. 1 (166A)	1					1			3											
	Duct Burner No. 1 (166B)	1		1							3										
EQT 3	Cogeneration Unit No. 2 (167)	1		1			1			3	3										
	Gas Turbine No. 2 (167A)	1					1			3											
	Duct Burner No. 2 (167B)	1		1							3										
EQT 9	Cogeneration Unit No. 3 (212)	1		1			1			3	3										
	Gas Turbine No. 3 (212A)	1					1			3											
	Duct Burner No. 3 (212B)	1		1							3										
EQT 4	Package Boiler A (168)			3	1																
EQT 8	Package Boiler B & C Vent (205)						3														
EQT 5	Gasoline Tank Vent (170)			3																	
EQT 7	Diesel fuel Storage Tank Vent (172)			3																	
EQT 10	Utilities Cooling Tower (220)											3									
EQT 77	Package Boiler B1 (229A new)	1		1																	1



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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP 7 Facility Wide - Utility Unit	Acid Rain Program [40 CFR 72-78] Acid Rain Program Permitting Requirements [LAC 33:III.505.A.2.e.ii]	<b>DOES NOT APPLY.</b> No single electrical generating unit has sold more than one-third of its power to the electrical grid over a 3-year period nor has it supplied more than 219,000 MW-hrs actual electrical output on an annual basis for sale to an electrical grid.
GRP 8 Utility Unit Combustion Cap	Chemical Accident Prevention [LAC 33:III.Chapter 59] Acid Rain Program [40 CFR 72-78] Acid Rain Program Permitting Requirements [LAC 33:III.505.A.2.e.ii]	<b>DOES NOT APPLY.</b> Any regulated chemicals are utilized below their respective thresholds.  <b>DOES NOT APPLY.</b> No single electrical generating unit has sold more than one-third of its power to the electrical grid over a 3-year period nor has it supplied more than 219,000 MW-hrs actual electrical output on an annual basis for sale to an electrical grid.

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<p>EQT 2 Cogeneration Unit No. 1 (166)</p>	<p>Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]</p>	<p><b>EXEMPT.</b> Units emit less than 250 tons of SO<sub>2</sub> per year.</p>
	<p>Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]</p>	<p><b>EXEMPT.</b> Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.</p>
	<p>National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines [40 CFR 63 Subpart YYYY]</p>	<p><b>DOES NOT APPLY.</b> Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of Subpart A of this part. [40 CFR 63.6090]</p>
	<p>National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63 Subpart DDDDD]</p>	<p><b>DOES NOT APPLY.</b> Waste heat boilers incorporating duct or supplemental firing that are designed to supply less than 50% of the total rated heat input capacity are specifically excluded from the definition of an affected boiler under this subpart. [40 CFR 63.7575]</p>
<p>EQT 3 Cogeneration Unit No. 2 (167)</p>	<p>Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]</p>	<p><b>EXEMPT.</b> Units emit less than 250 tons of SO<sub>2</sub> per year.</p>
	<p>Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]</p>	<p><b>EXEMPT.</b> Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.</p>

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<p>EQT 3 Cogeneration Unit No. 2 (167) <i>continued</i></p>	<p>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (Duct Burner) [40 CFR 60 Subpart Db]</p> <p>National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines [40 CFR 63 Subpart YYYYY]</p> <p>National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63 Subpart DDDDD]</p> <p>Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]</p>	<p><b>Does not apply.</b> Boiler is rated at less than 100 MMBTU/hr.</p> <p><b>DOES NOT APPLY.</b> Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of Subpart A of this part. [40 CFR 63.6090]</p> <p><b>DOES NOT APPLY.</b> Waste heat boilers incorporating duct or supplemental firing that are designed to supply less than 50% of the total rated heat input capacity are specifically excluded from the definition of an affected boiler under this subpart. [40 CFR 63.7575]</p> <p><b>EXEMPT.</b> Units emit less than 250 tons of SO<sub>2</sub> per year.</p>
<p>EQT 9 Cogeneration Unit No. 3 (212)</p>	<p>Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]</p> <p>National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines [40 CFR 63 Subpart YYYYY]</p>	<p><b>EXEMPT.</b> Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.</p> <p><b>DOES NOT APPLY.</b> Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of Subpart A of this part. [40 CFR 63.6090]</p>

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<p>EQT 9 Cogeneration Unit No. 3 (212) <i>continued</i></p>	<p>National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63 Subpart DDDDD]</p>	<p><b>DOES NOT APPLY.</b> Waste heat boilers incorporating duct or supplemental firing that are designed to supply less than 50% of the total rated heat input capacity are specifically excluded from the definition of an affected boiler under this subpart. [40 CFR 63.7575]</p>
	<p>Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]</p>	<p><b>EXEMPT.</b> Units emit less than 250 tons of SO<sub>2</sub> per year.</p>
<p>EQT 4 Package Boiler A (168)</p>	<p>Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]</p>	<p><b>EXEMPT.</b> Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.</p>
	<p>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60 Subpart Db]</p>	<p><b>DOES NOT APPLY.</b> Boiler is rated at less than 100 MMBTU/hr.</p>
	<p>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 63 Subpart Dc]</p>	<p><b>DOES NOT APPLY.</b> Subpart Dc contains no applicable emissions limits for SO<sub>2</sub>, PM<sub>10</sub>, or any other air pollutant for sources combusting only natural gas. Reporting and recordkeeping requirements apply. [40 CFR 60.48c(a)]</p>

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<p>EQT 4                  Package Boiler A                  (168)  <i>continued</i></p>	<p>National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters                  [40 CFR 63 Subpart DDDDD]</p>	<p><b>DOES NOT APPLY.</b> Existing large and limited use gaseous fuel boilers and process heaters are subject only to the initial notification requirements in 40 CFR 63.9(b) (i.e., they are not subject to the emissions limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, recordkeeping and reporting requirements of this subpart or any other requirements in Subpart A of this part). [40 CFR 63.7506(b)]</p>
<p>Chapter 15. Emission Standards for Sulfur Dioxide                  [LAC 33:III.1501-1513]</p>	<p>Chapter 15. Emission Standards for Sulfur Dioxide                  [LAC 33:III.1501-1513]</p>	<p><b>EXEMPT.</b> Units emit less than 250 tons of SO<sub>2</sub> per year.</p>
<p>EQT 8                  Package Boiler B &amp; C                  Vent (205)</p>	<p>Control of Emissions of Nitrogen Oxides (NOx)                  [LAC 33:III Chapter 22]</p>	<p><b>DOES NOT APPLY.</b> Each of the boilers venting to the common stack are 33.3 MMBTU/hr (total 66.6 MMBTU/hr), less than the 40 MMBTU/hr specified in the regulation</p>
<p>Comprehensive Toxic Air Pollutant Emission Control Program                  [LAC 33:III.5105.B.3]</p>	<p>Comprehensive Toxic Air Pollutant Emission Control Program                  [LAC 33:III.5105.B.3]</p>	<p><b>EXEMPT.</b> Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.</p>
<p>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units                  [40 CFR 63 Subpart Dc]</p>	<p>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units                  [40 CFR 63 Subpart Dc]</p>	<p><b>DOES NOT APPLY.</b> Subpart Dc contains no applicable emissions limits for SO<sub>2</sub>, PM<sub>10</sub>, or any other air pollutant for sources combusting only natural gas.</p>

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<p>EQT 5 Gasoline Tank Vent</p>	<p>Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III Chapter 51]</p> <p>Standards of Performance for Volatile Organic Liquid Storage Vessels(Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 Subpart Kb]</p>	<p><b>EXEMPT.</b> The emissions are &lt;260 lbs/yr Benzene for minimum emission rate listed for pollutant in Table 51.1. No MACT required. [LAC 33:III.5109.A]</p> <p><b>DOES NOT APPLY.</b> Common vent serves two 500 gallon tanks. Regulation applies to vessels over 75 cubic meters (19,812 gallons).</p>
<p>EQT 7 Diesel Fuel Tank</p>	<p>Control of Emission of Organic Compounds – Storage of Volatile Organic Compounds [LAC 33:III.2103]</p> <p>Standards of Performance for Volatile Organic Liquid Storage Vessels(Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 Subpart Kb]</p>	<p><b>EXEMPT.</b> Storage vessels storing VOC with a true vapor pressure &lt;1.5 psia are exempt from the provisions of this section except for documentation of the maximum true vapor pressure. [LAC 33:III.2103.H.3 and I.4]</p> <p><b>DOES NOT APPLY.</b> Storage vessel has a capacity of 10,000 which is less than the 19,812 gallons (75 cubic meters) requirement.</p>
<p>EQT 10 Utilities Cooling Tower</p>	<p>Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109]</p> <p>NESHAP for Source Categories Subpart Q – Chromium Emissions from Industrial Process Cooling Towers (IPCT) [40 CFR 63.400(a)]</p>	<p><b>DOES NOT APPLY.</b> This source does not emit TAPs.</p> <p><b>DOES NOT APPLY.</b> No water treatment programs containing chromium or chromium compounds are in use at FPC-L.A.</p>

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EQT 77 Package Boiler B1 (229A)	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO <sub>2</sub> per year.
EQT 131 Package Boiler B2 (229B)	Control of Emissions of Nitrogen Oxides (NOx) in the Baton Rouge Nonattainment Area and Region of Influence [LAC 33:III.2201]	EXEMPT. This point source is required to meet more stringent state/federal NOx emission limitation. Monitoring, recordkeeping, and reporting requirements specified in LAC 33:III.Chapter 22 apply.[LAC 33:III.2201.C.15]
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit. [Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement. [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of

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attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

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5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

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- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
  
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
  
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire date August 20, 2000, and a revised application and EIQ dated December 21, 2004, as well as additional information dated February 4, 2005, March 17, 2005, May 18, 2005, June 30, 2005, and January 30, 2006.
  
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
  
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

**AI ID: 288 Formosa Plastics Corp Louisiana - Baton Rouge Plant**  
**Activity Number: PER20040010**  
**Permit Number: 2915-V0**  
**Air - Title V Regular Permit Initial**

Also Known As:	ID	Name	User Group	Start Date
	annual ADVF	Formosa Plastics Corp LA	Asbestos	01-01-1980
	0840-00002	Formosa Plastics Corp Louisiana - Baton Rouge Plant	CDS Number	08-05-2002
	0840-0002	Formosa Plastics Corp Louisiana - Baton Rouge Plant	Emission Inventory	03-03-2004
	72-0905077	Federal Tax ID	Federal Tax ID	11-20-1999
	Comp Order	Formosa Plastics Corp LA	Groundwater	03-01-2000
	LAD041224932	Formosa Plastics Corp LA	Hazardous Waste Notification	08-01-1980
	PC/CA	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
	LA0006149	WPC File Number	LPDES Permit #	05-22-2003
	WP0714	WPC State Permit Number	LWDPS Permit #	06-25-2003
	LA-4042-L01	Radioactive Material License	Radiation License Number	10-02-2000
	GD-033-1210	Formosa Plastics Corp LA	Solid Waste Facility No.	01-08-2002
	38878	Formosa Plastics Corp LA	TEMPO Merge	10-31-2000
	83205	Formosa Plastics Corp	TEMPO Merge	10-31-2000
	0840-0002	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
	70805FRMSPGULFS	TRI #	Toxic Release Inventory	07-13-2004

**Physical Location:**  
 north end of Gulf States Rd  
 Baton Rouge, LA 70805

**Mailing Address:**  
 PO Box 271  
 Baton Rouge, LA 708210271

**Location of Front Gate:**  
 30° 30' 6" 2 hundredths latitude, 91° 11' 9" 0 hundredths longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27

Name	Mailing Address	Phone (Type)	Relationship
Rusty Daigle	PO Box 271 Baton Rouge, LA 708210271	2253588508 (WP)	Radiation Safety Officer for
Rusty Daigle	PO Box 271 Baton Rouge, LA 708210271	2253588508 (WF)	Radiation Safety Officer for
Rusty Daigle	PO Box 271 Baton Rouge, LA 708210271	2254136764 (CP)	Radiation Safety Officer for
Rusty Daigle	PO Box 271 Baton Rouge, LA 708210271	rdagle@fibr.fpousa.	Radiation Safety Officer for
Kelly B. Serio	PO Box 271 Baton Rouge, LA 708210271	2253588566 (WP)	Responsible Official for
Kelly B. Serio	PO Box 271 Baton Rouge, LA 708210271	2253588566 (WP)	Air Permit Contact For
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271		Haz. Waste Billing Party for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271		Accident Prevention Billing Party for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Formosa Plastics Corp	PO Box 271 Baton Rouge, LA 708210271		Owns
	Formosa Plastics Corp	PO Box 271 Baton Rouge, LA 708210271		Operates

General Information

AI ID: 288 Formosa Plastics Corp Louisiana - Baton Rouge Plant  
Activity Number: PER20040010  
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Related Organizations:	Name	Address	Phone (Type)	Relationship
	Formosa Plastics Corp LA	PO Box 271 Baton Rouge, LA 708210271		Air Billing Party for
	Formosa Plastics Corp LA	PO Box 271 Baton Rouge, LA 708210271		Water Billing Party for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to [facupdate@la.gov](mailto:facupdate@la.gov).

**INVENTORIES**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant  
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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT002	166 - Cogeneration Unit No. 1		652.15 MM BTU/hr	561.3 MM BTU/hr		8760 hr/yr (All Year)
EQT003	167 - Cogeneration Unit No. 2		690.89 MM BTU/hr	580 MM BTU/hr		8760 hr/yr (All Year)
EQT004	168 - Package Boiler A		92.7 MM BTU/hr	92.7 MM BTU/hr		8760 hr/yr (All Year)
EQT005	170 - Gasoline Storage Tank Vent	1000 gallons		20000 gallons/yr		8760 hr/yr (All Year)
EQT007	172 - Diesel Fuel Storage Tank Vent	10000 gallons		800000 gallons/yr		8760 hr/yr (All Year)
EQT008	205 - Package Boiler B&C Vent		67 MM BTU/hr	67 MM BTU/hr		8760 hr/yr (All Year)
EQT009	212 - Cogeneration Unit No. 3		672.89 MM BTU/hr	580.2 MM BTU/hr		8760 hr/yr (All Year)
EQT010	220 - Utility Cooling Tower		13000 gallons/min	13000 gallons/min		8760 hr/yr (All Year)
EQT077	229A - Package Boiler B1		350 MM BTU/hr	350 MM BTU/hr		8760 hr/yr (All Year)
EQT131	229B - Package Boiler B2		350 MM BTU/hr	350 MM BTU/hr		8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP007	Facility Wide - Utility Unit	AI288
GRP007	Facility Wide - Utility Unit	EQT2 166 - Cogeneration Unit No. 1
GRP007	Facility Wide - Utility Unit	EQT3 167 - Cogeneration Unit No. 2
GRP007	Facility Wide - Utility Unit	EQT4 168 - Package Boiler A
GRP007	Facility Wide - Utility Unit	EQT5 170 - Gasoline Storage Tank Vent
GRP007	Facility Wide - Utility Unit	EQT7 172 - Diesel Fuel Storage Tank Vent
GRP007	Facility Wide - Utility Unit	EQT8 205 - Package Boiler B&C Vent
GRP007	Facility Wide - Utility Unit	EQT9 212 - Cogeneration Unit No. 3
GRP007	Facility Wide - Utility Unit	EQT10 220 - Utility Cooling Tower
GRP007	Facility Wide - Utility Unit	EQT77 229A - Package Boiler B1
GRP007	Facility Wide - Utility Unit	EQT131 229B - Package Boiler B2
GRP007	Facility Wide - Utility Unit	GRP8 Utility Unit Combustion Cap (includes Boilers B&C Vent)
GRP008	Utility Unit Combustion Cap (includes Boilers B&C Vent)	EQT2 166 - Cogeneration Unit No. 1
GRP008	Utility Unit Combustion Cap (includes Boilers B&C Vent)	EQT3 167 - Cogeneration Unit No. 2
GRP008	Utility Unit Combustion Cap (includes Boilers B&C Vent)	EQT4 168 - Package Boiler A
GRP008	Utility Unit Combustion Cap (includes Boilers B&C Vent)	EQT8 205 - Package Boiler B&C Vent
GRP008	Utility Unit Combustion Cap (includes Boilers B&C Vent)	EQT9 212 - Cogeneration Unit No. 3
GRP023	Alternate Operation of Package Boilers B1 and B2 (except during periods of startup and shutdown)	EQT77 229A - Package Boiler B1
GRP023	Alternate Operation of Package Boilers B1 and B2 (except during periods of startup and shutdown)	EQT131 229B - Package Boiler B2
GRP024	Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.	EQT2 166 - Cogeneration Unit No. 1
GRP024	Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.	EQT3 167 - Cogeneration Unit No. 2
GRP024	Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.	EQT4 168 - Package Boiler A
GRP024	Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.	EQT9 212 - Cogeneration Unit No. 3

**INVENTORIES**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant  
 Activity Number: PER20040010  
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**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP024	Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.	EQT77 229A - Package Boiler B1
GRP024	Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.	EQT131 229B - Package Boiler B2
GRP025	Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.	EQT2 166 - Cogeneration Unit No. 1
GRP025	Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.	EQT3 167 - Cogeneration Unit No. 2
GRP025	Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.	EQT4 168 - Package Boiler A
GRP025	Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.	EQT9 212 - Cogeneration Unit No. 3
GRP025	Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.	EQT77 229A - Package Boiler B1
GRP025	Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.	EQT131 229B - Package Boiler B2
GRP026	Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.	EQT2 166 - Cogeneration Unit No. 1
GRP026	Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.	EQT3 167 - Cogeneration Unit No. 2
GRP026	Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.	EQT4 168 - Package Boiler A
GRP026	Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.	EQT9 212 - Cogeneration Unit No. 3
GRP026	Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.	EQT77 229A - Package Boiler B1
GRP026	Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.	EQT131 229B - Package Boiler B2
GRP027	Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.	EQT2 166 - Cogeneration Unit No. 1
GRP027	Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.	EQT3 167 - Cogeneration Unit No. 2
GRP027	Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.	EQT4 168 - Package Boiler A
GRP027	Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.	EQT9 212 - Cogeneration Unit No. 3
GRP027	Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.	EQT77 229A - Package Boiler B1
GRP027	Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.	EQT131 229B - Package Boiler B2
GRP028	Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.	EQT2 166 - Cogeneration Unit No. 1
GRP028	Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.	EQT3 167 - Cogeneration Unit No. 2
GRP028	Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.	EQT4 168 - Package Boiler A
GRP028	Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.	EQT9 212 - Cogeneration Unit No. 3
GRP028	Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.	EQT77 229A - Package Boiler B1
GRP028	Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.	EQT131 229B - Package Boiler B2
GRP030	Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate	EQT2 166 - Cogeneration Unit No. 1
GRP030	Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate	EQT3 167 - Cogeneration Unit No. 2
GRP030	Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate	EQT4 168 - Package Boiler A
GRP030	Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate	EQT9 212 - Cogeneration Unit No. 3
GRP030	Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate	EQT77 229A - Package Boiler B1
GRP030	Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate	EQT131 229B - Package Boiler B2

**Relationships:**

**Stack Information:**

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)

**INVENTORIES**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant  
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**Stack Information:**

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT002	50.3	411932		136.4	60	357
EQT003	88.6	417304	10		105	346
EQT004	39	37165	4.5		30	360
EQT005			.17		20	
EQT007			.08		12	
EQT008	18.5	15099	4.2		30	260
EQT009	75.6	356137	10		110	260
EQT010	.35	16884		804	30	108
EQT077	50	103759	6.67		50	300
EQT131						

**Fee Information:**

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP007	114	MW	1420 - C) Electric Power Gen. (Natural Gas Fired) (Rated Capacity)
	1075.1	1,000 Lbs/Hr	1540 - Steam Gen. Units-Natural Gas or Comb Non-Fossil Fuels (Rated Capacity)

# EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant  
 Activity Number: PER20040010  
 Permit Number: 2915-V0  
 Air - Title V Regular Permit Initial

## All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 166		2.87			38.71			323.89		142.70				11.07	
EQT 003 167		2.53			41.01			339.68		148.97				11.58	
EQT 004 168		0.73			5.80			9.67		8.12				0.53	
EQT 005 170													0.04	0.15	
EQT 007 172													0.01	0.01	
EQT 008 205		0.53			4.19			6.99		5.87				0.38	
EQT 009 212		2.53			41.24			127.41		120.65				11.60	
EQT 010 220	2.08	4.16	9.12											0.01	0.01
EQT 077 229A		2.77			21.90			13.30		30.66				2.01	
EQT 131 229B		2.77			21.90			13.30		30.66				2.01	
GRP 008	6.91		30.26	5.18		22.69	146.74		642.74		80.06		8.08		35.37
GRP 023 Alt. Oper. of B1/B2		2.77			21.90			13.30		30.66				2.01	
GRP 024 Scenario 1			30.28			15.591			456.22						18.35
GRP 025 Scenario 2			26.22			15.82			436.07						33.40
GRP 026 Scenario 3			24.77			8.85			361.73						31.64
GRP 027 Scenario 4			29.67			15.82			398.36						33.42
GRP 028 Scenario 5			27.94			15.68			398.64						19.13
GRP 030	6.91		30.26	5.18		22.69	146.74		642.74		80.06		8.08		35.37

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

**All phases**

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Phase Totals:**

PM10: 39.38 tons/yr

SO2: 22.69 tons/yr

NOx: 642.74 tons/yr

CO: 350.65 tons/yr

VOC: 35.53 tons/yr

**Emission rates Notes:**

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

**All phases**

Subject Item	Acetaldehyde			Acrolein			Benzene			Chlorine			Ethyl benzene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 166		0.03			0.004			0.01						0.02	
EQT 003 167		0.02			0.004			0.01						0.02	
EQT 004 168								0.0002							
EQT 008 205								0.0001							
EQT 009 212		0.02			0.004			0.01						0.02	
EQT 010 220											0.78	2.45			3.42
EQT 077 229A								0.001							
EQT 131 229B								0.001							
GRP 008	0.06		0.26	0.01		0.04		0.02		0.08			0.05		0.20
GRP 023 All. Oper. of B1/B2															
GRP 030	0.06		0.26	0.01		0.04		0.02		0.08			0.05		0.20

# EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant  
 Activity Number: PER20040010  
 Permit Number: 2915-V0  
 Air - Title V Regular Permit Initial

**All phases**

Subject Item	Formaldehyde			Naphthalene			Polynuclear Aromatic Hydrocarbons			Toluene			Xylene (mixed isomers)		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 166		0.48			0.001			0.001			0.09			0.04	
EQT 003 167		0.42			0.001			0.001			0.08			0.04	
EQT 004 168		0.01									0.0003				
EQT 008 205		0.01									0.0002				
EQT 009 212		0.42			0.001			0.001			0.08			0.04	
EQT 010 220															
EQT 077 229A		0.03									0.001				
EQT 131 229B		0.03									0.001				
GRP 008	1.07		4.68	0.002		0.01	0.003		0.01	0.19		0.84	0.09		0.41
GRP 023 All Oper. of B1/B2		0.03									0.001				
GRP 030	1.07		4.68	0.002		0.01	0.003		0.01	0.19		0.84	0.09		0.41

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant  
 Activity Number: PER20040010  
 Permit Number: 2915-V0  
 Air - Title V Regular Permit Initial

**All phases**

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002		0.25	
166			
EQT 003		0.22	
167			
EQT 004		0.17	
168			
EQT 008		0.13	
205			
EQT 009		0.23	
212			
EQT 010			
220			
EQT 077		0.66	
229A			
EQT 131		0.66	
229B			
GRP 008	1.06		4.64
<b>GRP 023</b>		<b>0.66</b>	
All. Oper. of B1/B2			
GRP 030	1.06		4.64

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Parameter Totals:**

- Acetaldehyde: 0.26 tons/yr
- Acrolein: 0.04 tons/yr
- Benzene: 0.08 tons/yr
- Chlorine: 3.42 tons/yr
- Ethyl benzene: 0.20 tons/yr
- Formaldehyde: 4.68 tons/yr
- n-Hexane: 4.64 tons/yr
- Naphthalene: 0.01 tons/yr
- Polynuclear Aromatic Hydrocarbons: 0.01 tons/yr

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

**All phases**

Toluene: 0.84 tons/yr

Xylene (mixed isomers): 0.41 tons/yr

**Emission Rates Notes:**

## SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

### EQT002 166 - Cogeneration Unit No. 1

- 1 Opacity  $\leq$  20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: Six-minute average
- 2 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 3 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 4 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 5 Permittee shall comply with all applicable emission rate requirements of LAC 33:III.2201.D.1. [LAC 33:III.2201.D.1]
- 6 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO<sub>2</sub>, PM<sub>10</sub>, and VOC if modifications could cause an increase in emissions of any of these compounds. [LAC 33:III.2201.G.2]
- 7 Carbon monoxide: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.3.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 8 Nitrogen oxides: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.2.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 9 Nitrogen oxides: Every three years, Permittee will conduct a stack test to monitor NOx and CO and other appropriate emissions in accordance with methods specified. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 10 Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) continuously. Permittee will monitor and record the steam rate added with the turbine fuel every two hours, except during the ozone season. [LAC 33:III.2201.H.3.b]  
Which Months: Jan-Apr:Oct-Dec Statistical Basis: Two-hour average
- 11 Either the steam to fuel ratio or the ratio of actual steam flow rate to required steam flow rate will be recorded in accordance with the approved Alternative Monitoring Plan. These records shall be maintained on site and shall be available to the Air Quality Compliance Division. [LAC 33:III.2201.H.3.b.vi]
- 12 Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. During ozone season (May 1 through Sep 30), Permittee shall monitor and record the natural gas fuel consumption to the gas turbine once each hour. Permittee shall continuously monitor natural gas consumption to HRSG #1 and will record documentation of the total daily amount of fuel consumed in HRSG #1. [LAC 33:III.2201.H.3.b.i]  
Which Months: May-Sep Statistical Basis: Hourly average
- 13 Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) hourly. During the ozone season (May 1 through Sep 30), Permittee will monitor and record the steam rate added with the turbine fuel once each hour. [LAC 33:III.2201.H.3.b.vi]  
Which Months: May-Sep Statistical Basis: Hourly average
- 14 Permittee shall operate the duct burner (HRSG #1) associated with this emission point on sweet natural gas only. [LAC 33:III.501.C.6]

## SPECIFIC REQUIREMENTS

AI ID : 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

### EQT002 166 - Cogeneration Unit No. 1

- 15 Natural Gas: Fuel rate monitored by fuel flow/firing rate instrument continuously. Permittee will install and diligently maintain continuous monitors indicating fuel consumption. This system of monitoring shall be accurate to within +/- 5 percent. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Hourly average
- 16 Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. The Permittee shall continuously monitor the natural gas fuel consumption by the gas turbine and record this information every two hours, except during ozone season. Permittee shall continuously monitor the natural gas consumption by HRSG #1 and will record documentation of the total daily amount of fuel consumed in HRSG #1. [LAC 33:III.501.C.6]
- Which Months: Jan-Apr;Oct-Dec Statistical Basis: Hourly average
- 17 Either the steam/fuel ratio or actual steam flow rate to required flow rate monitored continuously. The permittee shall install and diligently maintain a continuous monitor indicating either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate being injected in the turbine. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]
- 18 Fuel sulfur content  $\leq$  0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
- Which Months: All Year Statistical Basis: None specified
- 19 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(b)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). 40 CFR 60 Subpart GG. [40 CFR 60.334(h)(1)]
- Which Months: All Year Statistical Basis: None specified
- 20 Maintain NOx emissions at less than 0.2 lb/MMBTU heat input for HRSG #1. Unit is exempt from NOx limitations when combusting gas with less than 0.3% nitrogen content. [40 CFR 60.44b(a)(4)]
- 21 Fuel rate recordkeeping by electronic or hard copy daily. Record the amount fuel combusted during each day in HRSG #1 and calculate the annual capacity factor for natural gas for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 22 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 23 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Db - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, for the duct burner (HRSG #1) associated with this emission point. [40 CFR 60.Subpart Db]
- 24 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, in the operation of the turbine associated with this emission point. [40 CFR 60.Subpart GG]
- 25 Compliance Assurance Monitoring (40 CFR 64) is applicable to any major source unit that have the potential to emit greater than 100 tons of a regulated air pollutant after controls (post-control), defined as a pollutant specific emission unit (PSEU). CAM, however, is not applicable to this emission unit because NOx, the pollutant requiring control, does not have any monitoring requirements according to a determination made by EPA dated April 24, 2001 regarding industrial gas turbines having a heat input at peak load greater than 100 MMBTU/hr and a manufacturer's rated base load at ISO conditions greater than 30 MW, per 40 CFR 60.332 (40 CFR 60 Subpart GG). However, CAM is applicable on a facility-wide basis. [40 CFR 64]

### EQT003 167 - Cogeneration Unit No. 2

- 26 Opacity  $\leq$  20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: Six-minute average

## SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

### EQT003 167 - Cogeneration Unit No. 2

- 27 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 28 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 29 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 30 Permittee shall comply with all applicable emission rate requirements of LAC 33:III.2201.D.1. [LAC 33:III.2201.D.1]
- 31 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO<sub>2</sub>, PM<sub>10</sub>, and VOC if modifications could cause an increase in emissions of any of these compounds. [LAC 33:III.2201.G.2]
- 32 Carbon monoxide: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.3.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 33 Nitrogen oxides: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.2.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 34 Nitrogen oxides: Every three years, Permittee will conduct a stack test to monitor NOx and CO and other appropriate emissions in accordance with methods specified. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 35 Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. The Permittee shall continuously monitor the natural gas fuel consumption by the gas turbine and record this information every two hours, except during ozone season. Permittee shall continuously monitor the natural gas consumption by HRSG #2 and will record documentation of the total daily amount of fuel consumed in HRSG #2. [LAC 33:III.2201.H.3.b]  
Which Months: Jan-Apr;Oct-Dec Statistical Basis: Hourly average
- 36 Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) continuously. Permittee will monitor and record the steam rate added to the turbine fuel every two hours, except during the ozone season. [LAC 33:III.2201.H.3.b]  
Which Months: Jan-Apr;Oct-Dec Statistical Basis: Two-hour average
- 37 Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. During ozone season (May 1 through Sep 30), Permittee shall monitor the natural gas fuel consumption to the gas turbine once each hour. Permittee shall continuously monitor natural gas consumption to HRSG #2 and will record documentation of the total daily amount of fuel consumed in HRSG #2. [LAC 33:III.2201.H.3.b.i]  
Which Months: May-Sept Statistical Basis: Hourly average
- 38 Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) hourly. During the ozone season (May 1 through Sep 30), Permittee will monitor and record the steam consumption to the turbine once each hour. [LAC 33:III.2201.H.3.b.vi]  
Which Months: May-Sept Statistical Basis: Hourly average
- 39 Either the steam/fuel ratio or the ratio of actual steam flow to required steam flow will be recorded in accordance with the approved Alternative Monitoring Plan. These records shall be maintained on site and shall be available to the Air Quality Compliance Division. [LAC 33:III.2201.H.3.b.vi]
- 40 Permittee shall operate the duct burner (HRSG #2) associated with this emission point on sweet natural gas only. [LAC 33:III.501.C.6]

## SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

### EQT003 167 - Cogeneration Unit No. 2

- 41 Natural Gas: Fuel rate monitored by fuel flow/firing rate instrument continuously. Permittee will install and diligently maintain continuous monitors indicating each type of fuel consumption. This system of monitoring shall be accurate to within +/- 5 percent. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Hourly average
- 42 Either the steam/fuel ratio or actual steam flow rate to required steam flow rate monitored continuously. The permittee shall install and diligently maintain a continuous monitor indicating either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate being injected in the turbine. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified
- 43 Fuel sulfur content  $\leq$  0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]  
Which Months: All Year Statistical Basis: None specified
- 44 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). 40 CFR 60 Subpart GG. [40 CFR 60.334(h)(1)]  
Which Months: All Year Statistical Basis: None specified
- 45 Maintain NOx emissions at less than 0.2 lb/MMBTU heat input for HRSG #2. Unit is exempt from NOx limitations when combusting gas with less than 0.3% nitrogen content. [40 CFR 60.44b(a)(4)]
- 46 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day in HRSG #2 and calculate the annual capacity factor for natural gas for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 47 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 48 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Db - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, for the duct burner associated with this emission point. [40 CFR 60.Subpart Db]
- 49 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, in the operation of the turbine associated with this emission point, for purposes of compliance. Permittee shall comply with applicable requirements of Electric Utility stationary gas turbines. [40 CFR 60.Subpart GG]
- 50 Compliance Assurance Monitoring (40 CFR 64) is applicable to any major source unit that have the potential to emit greater than 100 tons of a regulated air pollutant after controls (post-control), defined as a pollutant specific emission unit ( PSEU). CAM, however, is not applicable to this emission unit because NOx, the pollutant requiring control, does not have any monitoring requirements according to a determination made by EPA dated April 24, 2001 regarding industrial gas turbines having a heat input at peak load greater than 100 MMBTU/hr and a manufacturer's rated base load at ISO conditions greater than 30 MW, per 40 CFR 60.332 (40 CFR 60 Subpart (jG)). However, CAM is applicable on a facility-wide basis. [40 CFR 64]

### EQT004 168 - Package Boiler A

- 51 Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, or equipment changes which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: Six-minute average
- 52 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 53 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

### EQT004 168 - Package Boiler A

- 54 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 55 Permittee shall comply with all applicable emission rate requirements of LAC 33:III.2201.D.1. [LAC 33:III.2201.D.1]
- 56 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO<sub>2</sub>, PM<sub>10</sub>, and VOC if modifications could cause an increase in emissions of any of these compounds. [LAC 33:III.2201.G.2]
- 57 Fuel rate monitored by continuous parameter monitoring system (CPMS) continuously. [LAC 33:III.2201.H.1.a]  
Which Months: May-Sep Statistical Basis: 24-hour average
- 58 Oxygen monitored in accordance with approved Alternative Monitoring Plan. Permittee will install, calibrate, maintain, and operate an oxygen monitor to measure oxygen concentration in the flue gas. Which months: May-Sep Statistical Basis: Daily Average. [LAC 33:III.2201.H.1.a]  
Which Months: May-Sep Statistical Basis: Daily average
- 59 Permittee shall demonstrate continuous compliance in accordance with LAC 33:III.2201.H.1.a.iii. In order to demonstrate compliance with the NOx limits of Subsection D and E of this Section, implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with Subsection G of this section. [LAC 33:III.2201.H.1.a.iii]
- 60 Comply with the appropriate recordkeeping and reporting requirements specified for this emission source. [40 CFR 60.48c(a)]

### EQT005 170 - Gasoline Storage Tank Vent

- 61 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 62 Source emits Class I and/or Class II TAP less than the MER (facility wide). No further control is required. [LAC 33:III.5109.A]
- 63 Source emits Class I (benzene) and/or Class II TAP less than the MER (facility wide). No further control is required. [LAC 33:III.5109.A]

### EQT007 172 - Diesel Fuel Storage Tank Vent

- 64 The owner/operator of any storage facility shall maintain records to verify compliance with or exemption from LAC 33:III.2103. [LAC 33:III.2103.I]

### EQT008 205 - Package Boiler B&C Vent

- 65 Opacity  $\leq$  20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: Six-minute average
- 66 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 67 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: None specified
- 68 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

## SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

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### EQT008 205 - Package Boiler B&C Vent

69 Package Boilers B & C (EQT 8) will be permanently shut down after new Package Boilers B1 & B2 (EQT 077, EQT 131/Emission Points 229 A/B) are operational. Permittee will comply with boiler B & C requirements until that time. Upon permanent shut down, applicable federal and state requirements will no longer apply to this emission point. [LAC 33:III.501.C.6]

### EQT009 212 - Cogeneration Unit No. 3

- 70 Opacity  $\leq$  20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 71 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 72 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 73 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 74 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO<sub>2</sub>, PM<sub>10</sub>, and VOC if modifications could cause an increase in emissions of any of these compounds. [LAC 33:III.2201.G.2]
- 75 Nitrogen oxides: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.2.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 76 Nitrogen oxides: Every three years, Permittee will conduct a stack test to monitor NOx and CO and other appropriate emissions in accordance with methods specified. A modification must be submitted to the LDEQ should NOx emissions exceed permitted limits within three months of testing. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 77 Carbon monoxide: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.3.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: May-Sept. [LAC 33:III.2201.G.5]
- 78 Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. During ozone season, Permittee will monitor the fuel consumption in HRSG #3 hourly and will record the total amount consumed on a daily basis. [LAC 33:III.2201.H.3.b]  
Which Months: May-Sep Statistical Basis: Hourly average
- 79 Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) hourly. During ozone season (May 1 through Sep 30), Permittee will monitor and record the fuel consumption to the gas turbine once each hour. [LAC 33:III.2201.H.3.b.i]  
Which Months: May-Sep Statistical Basis: Hourly average
- 80 Permittee shall operate the duct burner associated with this emission point on sweet natural gas only. [LAC 33:III.501.C.6]
- 81 Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. The Permittee shall continuously monitor the natural gas fuel consumption by the gas turbine and record this information daily. Permittee shall continuously monitor the natural gas fuel consumption by HRSG #3 and will record documentation of the total daily amount of each fuel consumed in HRSG #3. [LAC 33:III.501.C.6]  
Which Months: Jan-Apr;Oct-Dec Statistical Basis: Hourly average

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### EQ1009 212 - Cogeneration Unit No. 3

- 82 Fuel rate monitored by fuel flow/firing rate instrument continuously. Permittee will install and diligently maintain a continuous monitor indicating fuel consumption. This system of monitoring shall be accurate to within +/- 5 percent. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Hourly average
- 83 Permittee shall perform a stack test to estimate NOx emissions from Gas Turbine #3 within 12 months of issuance of this permit (2915-V0). The results from this test must be reported to LDEQ. A modification must be submitted to the LDEQ should NOx emissions exceed the permitted limits within three months of testing. [LAC 33:III.501.C.6]
- 84 Fuel sulfur content  $\leq$  0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]  
Which Months: All Year Statistical Basis: None specified
- 85 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). 40 CFR 60 Subpart GG. [40 CFR 60.334(h)(1)]  
Which Months: All Year Statistical Basis: None specified
- 86 Maintain NOx emissions at less than 0.2 lb/MMBTU heat input for HRSG #3. Unit is exempt from NOx limitations when combusting gas with less than 0.3% nitrogen content. [40 CFR 60.44b(a)(4)]
- 87 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]
- 88 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 89 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 90 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Db - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, for the duct burner associated with this emission point. [40 CFR 60, Subpart Db]
- 91 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, in the operation of the turbine associated with this emission point. [40 CFR 60, Subpart GG]

### EQ1010 220 - Utility Cooling Tower

- 92 Source emits a Class III TAP (Chlorine) only. MACT is not required. [LAC 33:III.5109.A]

### EQ1077 229A - Package Boiler B1

- 93 Opacity  $\leq$  20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 94 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 95 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input. (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 96 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

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### EQ077 229A - Package Boiler B1

- 97 In accordance with LAC 33:III.2201.C.15, this point source is exempt from the requirements of LAC 33:III.2201 since the owner or operator is required to meet more stringent state/federal NOx emission limitations. [LAC 33:III.501.C.6]
- 98 Except during periods of startup and shutdown, permittee shall not operate Package Boiler B1 and Package Boiler B2 simultaneously. [LAC 33:III.501.C.6]
- 99 Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 100 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]  
Which Months: All Year Statistical Basis: Hourly average
- 101 Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
- 102 NOx CEMS performance evaluation data reported to meet the requirements of 40 CFR 60.49b shall not include data substituted using the missing data procedures in 40 CFR 75 Subpart D, nor shall the data have been bias adjusted according to the procedures of 40 CFR 75. Subpart Db. [40 CFR 60.48b(b)(2)]
- 103 Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 104 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 105 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]
- 106 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 107 Submit plan (if required): Due within 360 days of initial startup to DEQ for approval. The plan must identify the operating conditions to be monitored under 40 CFR 60.48b(g)(2), the records to be maintained under 40 CFR 60.49b(g), and all other information as specified in 40 CFR 60.49b(c)(1) through (c)(3). If the plan is approved, maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. Subpart Db. [40 CFR 60.49b(c)]
- 108 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 109 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 110 Comply with 40 CFR 63 Subpart DDDDD by November 12, 2004 or upon startup, whichever is later. Subpart DDDDD. [40 CFR 63.7495(a)]
- 111 Carbon monoxide  $\leq$  400 ppmv (dry basis) corrected to 3% oxygen. Subpart DDDDD. [40 CFR 63.7500(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 112 Be in compliance with the emission limits (including operating limits) and work practice standards in 40 CFR 63 Subpart DDDDD at all times, except during periods of startup, shutdown, and malfunction. Subpart DDDDD. [40 CFR 63.7505(a)]
- 113 Operate and maintain according to the provisions in 40 CFR 63.6(e)(1)(i) at all times. Subpart DDDDD. [40 CFR 63.7505(b)]
- 114 Develop a site-specific monitoring plan according to the requirements in 40 CFR 63.7505(d)(1) through (d)(4). Subpart DDDDD. [40 CFR 63.7505(d)]
- 115 Develop and implement a written startup, shutdown and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). Subpart DDDDD. [40 CFR 63.7505(c)]
- 116 Demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup. Subpart DDDDD. [40 CFR 63.7510(g)]

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### EQT077 229A - Package Boiler B1

- 117 Submit performance test and fuel analysis results: Due within 60 days after the completion of the performance tests or fuel analyses. Verify that the operating limits have not changed or provide documentation of revised operating parameters established according to 40 CFR 63.7530 and 40 CFR 63 Subpart DDDDD Table 7, as applicable. Ensure that reports for all subsequent performance tests and fuel analyses include all applicable information required in 40 CFR 63.7550. Subpart DDDDD. [40 CFR 63.7515(g)]
- 118 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, according to the procedures in 40 CFR 63.7525(a)(1) through (a)(6) by the compliance date specified in 40 CFR 63.7495. Subpart DDDDD. [40 CFR 63.7525(a)]
- Which Months: All Year Statistical Basis: None specified
- 119 Monitor and collect data according to 40 CFR 63.7535 and the site-specific monitoring plan required by 40 CFR 63.7505(d). Subpart DDDDD. [40 CFR 63.7535(a)]
- 120 Do not operate above any of the applicable maximum operating limits or below any of the applicable minimum operating limits listed in 40 CFR 63 Subpart DDDDD Tables 2 through 4 at all times except during periods of startup, shutdown, malfunction, or during performance tests following the date on which the initial performance test is completed or is required to be completed under 40 CFR 63.7 and 63.7510, whichever date comes first. Subpart DDDDD. [40 CFR 63.7540(a)(1)]
- 121 Fuel recordkeeping by electronic or hard copy continuously. Keep records of the type and amount of all fuels burned during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would either result in lower emissions of TSM, HCl, and mercury, than the applicable emission limit for each pollutant (if demonstrating compliance through fuel analysis), or result in lower fuel input of TSM, chlorine, and mercury than the maximum values calculated during the last performance tests (if demonstrating compliance through performance testing). Subpart DDDDD. [40 CFR 63.7540(a)(2)]
- 122 Demonstrate continuous compliance with each applicable emission limit, operating limit, and work practice standard in 40 CFR 63 Subpart DDDDD Tables 1 through 4 according to the methods specified in 40 CFR 63 Subpart DDDDD Table 8 and 40 CFR 63.7540(a)(1) through (a)(10). Subpart DDDDD. [40 CFR 63.7540(a)]
- 123 Report each instance in which emission limits, operating limits, and work practice standards in 40 CFR 63 Subpart DDDDD Tables 1 through 4 are not met; and each instance during a startup, shutdown or malfunction when emission limits, operating limits, and work practice standards are not met. Report according to the requirements in 40 CFR 63.7550. Subpart DDDDD. [40 CFR 63.7540(b)]
- 124 Operate in accordance with the SSMP as required by 40 CFR 63.7505(e) during periods of startup, shutdown, and malfunction. Subpart DDDDD. [40 CFR 63.7540(c)]
- 125 Submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (h) by the dates specified, as specified in 40 CFR 63.7545(b) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7545(a)]
- 126 Submit Report: Due if there is a startup, shutdown or malfunction during the reporting period that is not consistent with the startup, shutdown and malfunction plan, and any applicable emission limitation in the relevant emission standard is exceeded. Submit startup, shutdown and malfunction report within 2 working days by fax or telephone after starting actions inconsistent with the startup, shutdown or malfunction plan; and within 7 working days by letter after the end of the event unless alternate arrangements have been made with DEQ. Include actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart DDDDD. [40 CFR 63.7550(a)]
- 127 Submit Notification: Due within 48 hours of the declaration of a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, if intending to use a fuel other than natural gas or equivalent. Submit the information specified in 40 CFR 63.7550(g)(1) through (g)(5). Subpart DDDDD. [40 CFR 63.7550(g)]
- 128 Submit compliance status report: Due semiannually, by the 31st of January and July. Submit the compliance report according to 40 CFR 63.7550(b)(1) through (b)(5). Include the information specified in 40 CFR 63.7550(c) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7550]
- 129 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.7555(a) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7555]
- 130 Keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). Subpart DDDDD. [40 CFR 63.7560(a)]
- 131 Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record and keep on site for at least 2 years, as specified in 40 CFR 63.10(b)(1). Subpart DDDDD. [40 CFR 63.7560]

### EQT131 229B - Package Boiler B2

## SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

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Permit Number: 2915-V0

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### EQT131      **229B - Package Boiler B2**

- 132 Opacity  $\leq$  20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year    Statistical Basis: None specified
- 133 Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]  
Which Months: All Year    Statistical Basis: Six-minute average
- 134 Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year    Statistical Basis: None specified
- 135 Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 136 In accordance with LAC 33:III.2201.C.15, this point source is exempt from the requirements of LAC 33:III.2201 since the owner or operator is required to meet more stringent state/federal NOx emission limitations. [LAC 33:III.501.C.6]
- 137 Except during periods of startup and shutdown, permittee shall not operate Package Boiler B1 and Package Boiler B2 simultaneously. [LAC 33:III.501.C.6]
- 138 Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 139 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]  
Which Months: All Year    Statistical Basis: Hourly average
- 140 Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
- 141 NOx CEMS performance evaluation data reported to meet the requirements of 40 CFR 60.49b shall not include data substituted using the missing data procedures in 40 CFR 75 Subpart D, nor shall the data have been bias adjusted according to the procedures of 40 CFR 75. Subpart Db. [40 CFR 60.48b(b)(2)]
- 142 Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 143 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 144 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 145 Submit plan (if required): Due within 360 days of initial startup to DEQ for approval. The plan must identify the operating conditions to be monitored under 40 CFR 60.48b(g)(2), the records to be maintained under 40 CFR 60.49b(g), and all other information as specified in 40 CFR 60.49b(c)(1) through (c)(3). If the plan is approved, maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. Subpart Db. [40 CFR 60.49b(c)]
- 146 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 147 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 148 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
- 149 Comply with 40 CFR 63 Subpart DDDDD by November 12, 2004 or upon startup, whichever is later. Subpart DDDDD. [40 CFR 63.7495(a)]

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### EQT131      **229B - Package Boiler B2**

- 150 Carbon monoxide  $\leq$  400 ppmv (dry basis) corrected to 3% oxygen. Subpart DDDDD. [40 CFR 63.7500(a)(1)]  
Which Months: All Year    Statistical Basis: None specified
- 151 Be in compliance with the emission limits (including operating limits) and work practice standards in 40 CFR 63 Subpart DDDDD at all times, except during periods of startup, shutdown, and malfunction. Subpart DDDDD. [40 CFR 63.7505(a)]
- 152 Operate and maintain according to the provisions in 40 CFR 63.6(e)(1)(i) at all times. Subpart DDDDD. [40 CFR 63.7505(b)]
- 153 Develop a site-specific monitoring plan according to the requirements in 40 CFR 63.7505(d)(1) through (d)(4). Subpart DDDDD. [40 CFR 63.7505(d)]
- 154 Develop and implement a written startup, shutdown and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). Subpart DDDDD. [40 CFR 63.7505(e)]
- 155 Demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup. Subpart DDDDD. [40 CFR 63.7510(g)]
- 156 Submit performance test and fuel analysis results: Due within 60 days after the completion of the performance tests or fuel analyses. Verify that the operating limits have not changed or provide documentation of revised operating parameters established according to 40 CFR 63.7530 and 40 CFR 63 Subpart DDDDD Table 7, as applicable. Ensure that reports for all subsequent performance tests and fuel analyses include all applicable information required in 40 CFR 63.7550. Subpart DDDDD. [40 CFR 63.7515(g)]
- 157 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, according to the procedures in 40 CFR 63.7525(a)(1) through (a)(6) by the compliance date specified in 40 CFR 63.7495. Subpart DDDDD. [40 CFR 63.7525(a)]  
Which Months: All Year    Statistical Basis: None specified
- 158 Monitor and collect data according to 40 CFR 63.7535 and the site-specific monitoring plan required by 40 CFR 63.7505(d). Subpart DDDDD. [40 CFR 63.7535(a)]
- 159 Do not operate above any of the applicable maximum operating limits or below any of the applicable minimum operating limits listed in 40 CFR 63 Subpart DDDDD Tables 2 through 4 at all times except during periods of startup, shutdown, malfunction, or during performance tests following the date on which the initial performance test is completed or is required to be completed under 40 CFR 63.7 and 63.7510, whichever date comes first. Subpart DDDDD. [40 CFR 63.7540(a)(1)]
- 160 Fuel recordkeeping by electronic or hard copy continuously. Keep records of the type and amount of all fuels burned during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would either result in lower emissions of TSM, HCl, and mercury, than the applicable emission limit for each pollutant (if demonstrating compliance through fuel analysis), or result in lower fuel input of TSM, chlorine, and mercury than the maximum values calculated during the last performance tests (if demonstrating compliance through performance testing). Subpart DDDDD. [40 CFR 63.7540(a)(2)]
- 161 Demonstrate continuous compliance with each applicable emission limit, operating limit, and work practice standard in 40 CFR 63 Subpart DDDDD Tables 1 through 4 according to the methods specified in 40 CFR 63 Subpart DDDDD Table 8 and 40 CFR 63.7540(a)(1) through (a)(10). Subpart DDDDD. [40 CFR 63.7540(a)]
- 162 Report each instance in which emission limits, operating limits, and work practice standards in 40 CFR 63 Subpart DDDDD Tables 1 through 4 are not met; and each instance during a startup, shutdown or malfunction when emission limits, operating limits, and work practice standards are not met. Report according to the requirements in 40 CFR 63.7550. Subpart DDDDD. [40 CFR 63.7540(b)]
- 163 Operate in accordance with the SSMP as required by 40 CFR 63.7505(e) during periods of startup, shutdown, and malfunction. Subpart DDDDD. [40 CFR 63.7540(c)]
- 164 Submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (h) by the dates specified, as specified in 40 CFR 63.7545(b) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7545(a)]
- 165 Submit Report: Due if there is a startup, shutdown or malfunction during the reporting period that is not consistent with the startup, shutdown and malfunction plan, and any applicable emission limitation in the relevant emission standard is exceeded. Submit startup, shutdown and malfunction report within 2 working days by fax or telephone after starting actions inconsistent with the startup, shutdown or malfunction plan; and within 7 working days by letter after the end of the event unless alternate arrangements have been made with DEQ. Include actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart DDDDD. [40 CFR 63.7550(a)]
- 166 Submit Notification: Due within 48 hours of the declaration of a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, if intending to use a fuel other than natural gas or equivalent. Submit the information specified in 40 CFR 63.7550(g)(1) through (g)(5). Subpart DDDDD. [40 CFR 63.7550(g)]
- 167 Submit compliance status report: Due semiannually, by the 31st of January and July. Submit the compliance report according to 40 CFR 63.7550(b)(1) through (b)(5). Include the information specified in 40 CFR 63.7550(c) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7550]

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### EQT131      **229B - Package Boiler B2**

- 168 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.7555(a) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7555]
- 169 Keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). Subpart DDDDD. [40 CFR 63.7560(a)]
- 170 Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record and keep on site for at least 2 years, as specified in 40 CFR 63.10(b)(1). Subpart DDDDD. [40 CFR 63.7560]

### GRP007      **Facility Wide - Utility Unit**

- 171 STATE ONLY - Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 172 STATE ONLY - Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 173 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.A.1-5. [LAC 33:III.2113.A]
- 174 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 175 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 176 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 177 Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services, Air Permits Division, as required in accordance with the procedures in LAC 33:III.Chapter 5. [LAC 33:III.501.C.1]
- 178 Carbon monoxide  $\leq$  350.65 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 179 Nitrogen oxides  $\leq$  642.74 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 180 Particulate matter (10 microns or less)  $\leq$  39.38 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 181 Sulfur dioxide  $\leq$  22.69 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 182 VOC, Total  $\leq$  35.53 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 183 Acetaldehyde  $\leq$  0.26 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 184 Acrolein  $\leq$  0.04 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum
- 185 Benzene  $\leq$  0.08 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year    Statistical Basis: Annual maximum

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- 186 Ethyl benzene  $\leq 0.20$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 187 Formaldehyde  $\leq 4.68$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 188 Naphthalene  $\leq 0.01$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 189 Polynuclear Aromatic Hydrocarbons  $\leq 0.01$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 190 Toluene  $\leq 0.84$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 191 Xylene (mixed isomers)  $\leq 0.41$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 192 n-Hexane  $\leq 4.64$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 193 Chlorine  $\leq 3.42$  tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 194 During periods in which either Package Boiler B1 or B2 is operating, except during periods of startup and shutdown, permittee shall demonstrate compliance with the following Utility Unit Emissions Cap annual emissions limit for applicable alternate operating scenarios identified in the permit application and referenced below. Permittee shall demonstrate compliance with the Utility Cap annual emissions limit by recording the total daily average fuel to each source in the Utility Cap when operating. These records shall be recorded and kept on site and available for inspection by the Department of Environmental Quality. Emissions from the sources under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. ( )
- | Alternate Operating Scenario | Pollutant | Emissions (tpy)              |
|------------------------------|-----------|------------------------------|
| 1                            | NOx       | 456.22( )                    |
| 2                            | CO        | 332.63( )                    |
| 3                            | CO        | 317.98( )                    |
| 4                            | CO        | 332.90( )                    |
| 5                            | CO        | 332.77. [LAC 33:III.501.C.6] |
- 195 Effective July 1, 1992, it shall be unlawful for any person, in the course of maintaining, servicing, repairing, or disposing of an appliance or industrial process refrigeration, to knowingly vent or otherwise knowingly release or dispose of any class I or class II substance used as a refrigerant in such appliance (or industrial process refrigeration) in a manner which permits such substance to enter the environment. De minimis releases associated with good faith attempts to recapture and recycle or safely dispose of any such substance shall not be subject to the prohibition set forth in the preceding sentence. [Section 608 of the CAA of 1990, as amended]. [LAC 33:III.501.C.6]
- 196 Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.a]
- 197 Any nonmajor (area) source of hazardous air pollutants required to obtain an operating permit pursuant to regulations promulgated under section 112 of the federal Clean Air Act is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.b]
- 198 Any nonmajor source required to obtain an operating permit pursuant to regulations promulgated under section 111 of the federal Clean Air Act is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.c]

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- 199 Any affected source, as defined in LAC 33:III.502, pursuant to the acid rain provisions of title IV of the federal Clean Air Act is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.d]
- 200 No Part 70 source may operate after the time that the owner or operator of such source is required to submit a permit application under Subsection C of this Section, unless an application has been submitted by the submittal deadline and such application provides information addressing all applicable sections of the application form and has been certified as complete in accordance with LAC 33:III.517.B.1. No Part 70 source may operate after the deadline provided for supplying additional information requested by the permitting authority under LAC 33:III.519, unless such additional information has been submitted within the time specified by the permitting authority. Permits issued to the Part 70 source under this Section shall include the elements required by 40 CFR 70.6. The Louisiana Department of Environmental Quality hereby adopts and incorporates by reference the provisions of 40 CFR 70.6(a), as in effect on July 21, 1992. Upon issuance of the permit, the Part 70 source shall be operated in compliance with all terms and conditions of the permit. Noncompliance with any federally applicable term or condition of the permit shall constitute a violation of the Clean Air Act and shall be grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. [LAC 33:III.507.B.2]
- 201 Any Part 70 source for which construction or operation has begun prior to the effective date of LAC 33:III.517 and with forms and guidance provided by DEQ, and shall be submitted no later than one year after the effective date of the Louisiana Part 70 program. [LAC 33:III.507.C.1]
- 202 Any source that becomes subject to the requirements of LAC 33:III.507 after the effective date of the Louisiana Part 70 program due to regulations promulgated by the Environmental Protection Agency or by the Department of Environmental Quality shall submit an application to the Office of Environmental Services, Air Permits Division, in accordance with the requirements established by the applicable regulation. In no case shall the required application be submitted later than one year from the date on which the source first becomes subject to LAC 33:III.507. [LAC 33:III.507.C.3]
- 203 Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration. [LAC 33:III.507.E.4]
- 204 No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section. [LAC 33:III.509.I.1]
- 205 A major stationary source or major modification shall meet each applicable emissions limitation under the Louisiana State Implementation Plan and each applicable emissions standard and standard of performance under the Louisiana New Source Performance Standards (LNSPS) and Louisiana Emission Standards for Hazardous Air Pollutants (LESHAP) and Sections 111 and 112 of the Clean Air Act. [LAC 33:III.509.J.1]
- 206 Comply with the requirements of PSD-LA-560 (M-3). This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-560 (M-3). [LAC 33:III.509]
- 207 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 208 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 209 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 210 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 211 Submit Annual Emissions Report (TED): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

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- 212 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 213 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 214 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923. [LAC 33:III.5107.B.2]
- 215 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:1.3923. [LAC 33:III.5107.B.3]
- 216 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 217 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 218 Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III.Chapter 5. [LAC 33:III.511]
- 219 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:1.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 220 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 221 Obtain written authorization from DEQ before commencement of any modification specified in a compliance plan submitted pursuant to LAC 33:III.5109. [LAC 33:III.5111.A.3]
- 222 Submit letter: Due to the Office of Environmental Services, Air Permits Division, concurrently with the submittal of the compliance plan. Indicate that the necessary permit modification (or new permit if no existing permit is in place) will be applied for by a date specified in the compliance schedule and request written authorization to construct, or. Submit permit application: Due to the Office of Environmental Services, Permits Division in accordance with LAC 33:III.5111.B, concurrently with the submittal of the compliance plan. [LAC 33:III.5111.A.3]
- 223 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]

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- 224 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 225 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]
- 226 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 227 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 228 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 229 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 230 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 231 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 232 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 233 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 234 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 235 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 236 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 237 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 238 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 239 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 240 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 241 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 242 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]

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- 243 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 244 Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority. [LAC 33:III.517.A.1]
- 245 Submit permit application: Due by the date established for submittal in accordance with LAC 33:III.507.C. The permit application is for an initial permit to be issued in accordance with LAC 33:III.507. Provide a copy of each permit application pertaining to a major Part 70 source to EPA at the time of application submittal to the permitting authority. [LAC 33:III.517.A.2]
- 246 Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete. [LAC 33:III.517.B.1]
- 247 Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit. [LAC 33:III.517.C]
- 248 Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18. [LAC 33:III.517.D]
- 249 In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8. [LAC 33:III.517.E]
- 250 Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate. [LAC 33:III.523.A]
- 251 Submit application for temporary exemption for testing: Due prior to test initiation. Submit the information specified in LAC 33:III.517 (with the exception of the data being measured in the test). Conduct testing for the minimum duration consistent with obtaining valid results. [LAC 33:III.523.B.2]
- 252 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 253 Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 254 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 255 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 256 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 257 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 258 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 259 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

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- 260 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M (40 CFR 61.148). [40 CFR 61.148]
- 261 Submit report: Due whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more. Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3). Subpart FF. [40 CFR 61.357(b)]. [40 CFR 61.Subpart FF]
- 262 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]. [40 CFR 61.Subpart M]
- 263 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 264 All affected facilities shall comply with applicable provisions of NESHAP for Industrial, Commercial, And Institutional Boilers And Process Heaters, 40 CFR 63 Subpart DDDDD[ ]
- 265 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 3 of 40 CFR 63 Subpart GGGGG. [40 CFR 63]
- 266 All affected facilities shall comply with all applicable provisions of compliance assurance monitoring (CAM). [40 CFR 64]
- 267 Permittee shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]
- 268 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 269 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 270 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 271 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 272 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

### GRP008 Utility Unit Combustion Cap (includes Boilers B&C Vent)

- 273 For the purpose of calculating a daily average, the operating day will be as defined in the approved Alternative Monitoring Plan when operating each source. Operating time recordkeeping by electronic or hard copy daily. [LAC 33:III.2201.B]
- 274 Equipment/operational data (surrogate for Nitrogen oxides): monitored in accordance with the approved NOx RACT Plan. Permittee will utilize previously defined emission factors and current fuel rates as specified in the most recently approved NOx RACT Alternative Monitoring Plan, to demonstrate compliance with approved nitrogen oxides emission rates during the ozone season (May 1-Sep 30) in the Baton Rouge Nonattainment Area. Data and appropriate calculations will be made available to DEQ personnel upon request. Which months: May-Sep Statistical Basis: 24-hour average. [LAC 33:III.2201.D.1 and D.7]
- 275 Permittee shall operate the duct burners, integral parts of EQT 2, EQT 3, and EQT 9, with sweet natural gas only. [LAC 33:III.501.C.6]

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Air - Title V Regular Permit Initial

### GRP008 Utility Unit Combustion Cap (includes Boilers B&C Vent)

- 276 Ratio: Permittee shall maintain either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate on Gas Turbine #1 and Gas Turbine #2 to maintain the combustion cap on a 30-day rolling average basis. Either the fuel to steam ratio or required steam flow rate to actual steam flow rate shall be measured and recorded each hour during ozone season, but every 2 hours during non-ozone season. [LAC 33:III.501.C.6]
- 277 The permittee shall record the scenario under which the sources in the Utility Unit Emissions Cap are operating contemporaneous with making a change from one operating scenario to another. [LAC 33:III.501.C.6]
- 278 Permittee shall perform a stack test to estimate NOx emissions from Gas Turbine #3 within 6 months (180 days) of issuance of this permit (2915-V0). The results from this test must be reported to LDEQ. A modification must be submitted to the LDEQ should NOx emissions exceed the permitted limits within three months of testing. [LAC 33:III.501.C.6]
- 279 Permittee shall install and maintain continuous monitors indicating either the ratio of actual steam flow rate to required steam flow rate being injected into Gas Turbines #1 and #2 (EQT002 and EQT003, respectively). This system of monitoring shall be accurate to within +/- 5 percent. Permittee shall measure and record either the ratio of steam-to-fuel or the actual to required steam flow rate, each hour. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]
- 280 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 281 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 282 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 283 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 284 Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart D6 for the duct burners associated with emission points EQT 2, EQT 3, and EQT 9. CEMs are not required for NOx monitoring based on an EPA determination on waste heat boilers. [40 CFR 60.Subpart D6]
- 285 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60 Subpart GG in the operation of the gas turbines associated with emission points EQT 2, EQT 3, and EQT 9. Permittee is not subject to the NOx requirements of New Source Performance Standards, 40 CFR 60.332, Subpart GG in the operation of the gas turbines associated with emission points EQT 2, EQT 3, and EQT 9. NOx emission limits are not provided in 40 CFR 60.332 for non-electric utility gas turbines with peak firing rates greater than 100 MMBtu/hr LHV or greater than 30 MW. If permittee meets the definition of electric utility stationary gas turbine in accordance with 40 CFR 60.331, the permittee will be subject to the NOx emission limit in 40 CFR 60.332(b) and corresponding requirements for applicable source(s). [40 CFR 60.Subpart GG]
- ### GRP023 Alternate Operation of Package Boilers B1 and B2 (except during periods of startup and shutdown)
- 286 Except during periods of startup and shutdown, permittee shall not operate Package Boiler B1 and Package Boiler B2 simultaneously. [LAC 33:III.501.C.6]
- ### GRP030 Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate
- 287 Operating time: Operating time recordkeeping by electronic or hard copy daily. For the purpose of calculating a daily average, the operating day will be as defined in the approved Alternative Monitoring Plan, when operating each source. [LAC 33:III.2201.B]
- 288 Equipment/operational data (surrogate for Nitrogen oxides): monitored in accordance with the approved NOx RACT Plan. Permittee will utilize previously defined emission factors and current fuel rates as specified in the most recently approved NOx RACT Alternative Monitoring Plan, to demonstrate compliance with approved nitrogen oxides emission rates during the ozone season (May 1-Sep 30) in the Baton Rouge Nonattainment Area. Data and appropriate calculations will be made available to DEQ personnel upon request. Which months: May-Sep Statistical Basis: 24-hour average. [LAC 33:III.2201.D.1 and D.7]
- 289 Permittee shall operate the duct burners, integral parts of EQT 2, EQT 3, and EQT 9, with sweet natural gas only. [LAC 33:III.501.C.6]

**SPECIFIC REQUIREMENTS**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

**GRP030 Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate**

290 Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60 Subpart GG in the operation of the gas turbines associated with emission points EQT 2, EQT 3, and EQT 9. Permittee is not subject to the NOx requirements of New Source Performance Standards, 40 CFR 60.332, Subpart GG in the operation of the gas turbines associated with emission points EQT 2, EQT 3, and EQT 9. NOx emission limits are not provided in 40 CFR 60.332 for non-electric utility gas turbines with peak firing rates greater than 100 MMBtu/hr LHV or greater than 30 MW. If permittee meets the definition of electric utility stationary gas turbine in accordance with 40 CFR 60.331, the permittee will be subject to the NOx emission limit in 40 CFR 60.332(b) and corresponding requirements for applicable source(s). [LAC 33:III.501.C.6]

291 During periods in which Package Boiler B1 and/or B2 are not operating, except during periods of startup and shutdown, permittee shall demonstrate compliance with the Utility Unit Emission Cap annual emissions limits shown below by recording the total daily average fuel to each source in the Utility Cap when operating. These records shall be recorded and kept on site and available for inspection by the Department of Environmental Quality. Emissions from the sources under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.[]

Pollutant	Emissions(tpy)[]
PM10	30.26[]
SO2	22.69[]
NOx	642.74[]
CO	350.65[]

Total VOC 35.53. [LAC 33:III.501.C.6]

292 The permittee shall record the scenario under which the sources in the Utility Unit Emissions Cap are operating contemporaneous with making a change from one operating scenario to another. [LAC 33:III.501.C.6]

293 During periods in which either Package Boiler B1 or B2 is operating, except during periods of startup and shutdown, permittee shall demonstrate compliance with the following Utility Unit Emissions Cap annual emissions limit for applicable alternate operating scenarios identified in the permit application and referenced below. Permittee shall demonstrate compliance with the Utility Cap annual emissions limit by recording the total daily average fuel to each source in the Utility Cap when operating. These records shall be recorded and kept on site and available for inspection by the Department of Environmental Quality. Emissions from the sources under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.[]

Alternate Operating Scenario	Pollutant	Emissions (tpy)[]
1	NOx	456.22[]
2	CO	332.63[]
3	CO	317.98[]
4	CO	332.90[]
5	CO	332.77. [LAC 33:III.501.C.6]

294 Ratio: Permittee shall maintain either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate on Gas Turbine #1 and Gas Turbine #2 to maintain the combustion cap on a 30-day rolling average basis. Either the fuel to steam ratio or required steam flow rate to actual steam flow rate shall be measured and recorded each hour during ozone season, but every 2 hours during non-ozone season. [LAC 33:III.501.C.6]

295 Permittee shall install and maintain continuous monitors indicating either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate being injected into Gas Turbines #1 and #2 (EQT002 and EQT003, respectively). This system of monitoring shall be accurate to within +/- 5 percent. Permittee shall measure and record either the ratio of steam-to-fuel or the actual to required steam flow rate, each hour. These records shall be maintained on site and available to the Air Quality Compliance Division. [LAC 33:III.501.C.6]

**SPECIFIC REQUIREMENTS**

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20040010

Permit Number: 2915-V0

Air - Title V Regular Permit Initial

**GRP030** Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate

- 296 Permittee shall perform a stack test to estimate NOx emissions from Gas Turbine #3 within 12 months of issuance of this permit (2915-V0). The results from this test must be reported to LDEQ. A modification must be submitted to the LDEQ should NOx emissions exceed the permitted limits within three months of testing. [LAC 33:III.501.C.6]
- 297 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 298 Activate the preplanned strategy listed in LAC 33:III.5611, Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 299 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 300 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 301 Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart Db for the duct burners associated with emission points EQT 2, EQT 3, and EQT 9. CEMs are not required for NOx monitoring based on an EPA determination on waste heat boilers. [40 CFR 60. SubpartDb]